Minimal or non-existent errors

Idah 8th Grade Direct Mathematics Assessment

2003 8th GRADE MAIN RANGEFINDER

4

It is important that you show or explain how you solved the problems on this assessment. If you use a calculator, show how you set up the math.

1. Your school is planning a snowboarding trip to a local resort as part of the advanced P.E. class. Each student must purchase a regular or P.E. class package.

Regular Pack	cage	P.E. Class Pa	ackage	Lunch	
Lift pass	\$22.00	Lift pass	\$ 6.00	Monster burger	\$5.95
Group Lesson	\$18.00	Group lesson	\$ 7.00	Fries	\$2.35
Snowboard	\$25.00	Snowboard	\$13.00	Drink	\$1.70

- a. How much would you save by choosing the P.E. class package? Show or explain how you found your answer. Add total cast of P.E. package and also the regular package,

 13 2.7 Then subtract the cost of the P.E. package from the regular package price.

 7 18 65 The total is how much woney you saved.
- b. If you were to go snowboarding using the regular package, the snowboard rental would

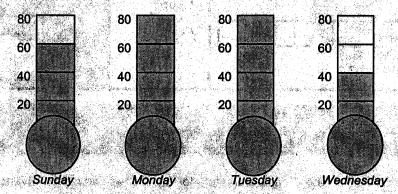
lunch including a 6% sales tax. Show or explain how you found your answer.

Add up total of lunch without tax, Multiply \$10,00 by 0.06. Add 60¢ with \$10.00 to get 10.00

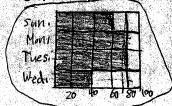
Appropriate processes accurately completed

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not choose to answer.

During the first four days of last week, Dan recorded the 10:00 a.m. temperature. Use the data below to answer the following prompts.



Make a graph to represent the temperature.

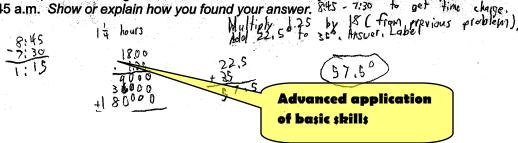


b. Find the mean temperature for the four-day period. Show or explain how you found your answer. Add up total Temperatures, Devide Total by t (four days). Lakel, answer, wont say which scale to use, just put degrees,

Advanced use of communication skills

c. On Tuesday at 7:30 a.m., the temperature was 35°. Determine the rate of change, in

d. If the temperature changed at a constant rate on Tuesday, determine the temperature at 8:45 a.m. Show or explain how you found your answer. 845 - 7:30



The rectangle shown here is 1 unit by 2 units.

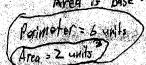
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212+1+1=6

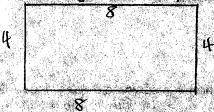
(40) (10) a. Find the perimeter and the area of this rectangle. Show or explain how you found your answer. Perimeter is 2121111 August 1 Answer: Label!

Avea is base height (21)



Effective problem-solving strategies

b. Sketch and label a rectangle that is 4 units by 8 units. Find the perimeter and the area of this second rectangle. Show or explain how you found your answer technet = 3+7+++ (24)



strategies

Effective problem-solving

Answer, Label

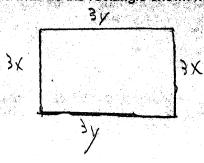
c. What is the ratio of the perimeters of the first rectangle to the second rectangle? What is the ratio of the areas of the first rectangle to the second rectangle? Show or explain how you found your answer. Make fruetions for ratios, Ruluce, Alswer, Label,

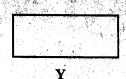


Perimeter=4



d. Describe the perimeter and area of a rectangle that is three times as long and three times as wide as the rectangle shown here. Show or explain how you found your answer height







Perimeter = 6x+64

Higher-order thinking skills (analysis, synthesis, and evaluation

- 4. Each time you buy a hamburger or hot dog at BOB'S DRIVE-IN, you get a card with three squares on it. When you rub each square on your card, a picture of a taco or a drink appears. If all pictures match, you get a free order of fries,
 - a. List all the possible ordered combinations of pictures you could get when you rub off the squares. Show or explain how you found your answer.
 - b. What is the probability that the card you get will be a winner? Show or explain how you found your answer.
 - c. One day, BOB'S DRIVE-IN gave away 296 cards. Suppose that one fourth of the cards were winning cards. How many orders of fries were given away? Show or explain your answer.
 - d. It costs BOB'S DRIVE-IN \$0.23 to buy, prepare, and serve an order of fries. How much did the give-away cost BOB'S? Show or explain how you found your answer.

Advanced understanding of situations

The school drill team has decided to have a car wash for a fund-raiser. They have discovered that 3 girls can wash 2 cars in about 15 minutes. The team has 24 girls.

a. How many cars can the entire team (24 girls) wash in 5 hours? Show or explain how you found your answer. Make a cation of get per hour Multiply by 5 to get for 5 hours.

Multiply by 4 to get per hour Multiply by 5 to get for 5 hours.

Answer Label 46 64

b. If one group of girls washes 40 cars, what fraction of the total do they wash? What percent of the total do they wash? Show or explain how you found your answer.

Make fraction, 520; Reduce, Devide 1 by 8 hower, Larely

c. The drill team charges \$5.00 per car. Find the amount of money that will be left after the team spends 40% of their earnings for summer camp. Show or explain how you found your answer. Maltiply 320 by 15.00 Multiply by 35. Reduce. Answer Label,